BRS	S1	1764	455/63.4,575.7,562.1,25.ccls.
BRS	S2	1313	S1 and (increas$3 elevat$3 near4 (side$lobe))
BRS	S3	4	(increas$3 elevat$3) near2 (power strength) near2 (side$lobe)
BRS	S4	6	(increas$3 elevat$3) near4 (power strength) near4 (side$lobe)
BRS	S5	39	(increas$3 elevat$3) with (power strength) with (side$lobe)
BRS	S6	1764	455/63.4,575.7,562.1,25.ccls.
BRS	S7	4	S6 and S5
BRS	S8	47	(increas$3 elevat$3 rais$3) with (power strength) with (side$lobe)
BRS	S9	4	S6 and S8
BRS	S10	143	(power) near4 (side$lobe)
BRS	S11	7	S6 and S10
BRS	S12	102	455/63.4.ccls.
BRS	S13	9	455/63.4.ccls. and covariance
BRS	S14	11	(smart adj2 antenna$1) same (side$lobe$1)
BRS	S15	0	(smart adj2 antenna$1) same (side$lobe$1) same Butler
BRS	S16	41927	(smart adj2 antenna$1) same (side$lobe$1) same1 Butler
BRS	S17	11	(smart adj2 antenna$1) same (side$lobe$1)
BRS	S18	41927	((smart adj2 antenna$1) same (side$lobe$1)) same1 Butler
BRS	S19	2	((smart adj2 antenna$1) same (side$lobe$1)) and Butler
BRS	S20	2	((smart adj2 antenna$1) same (side$lobe$1)) and Butler
IS&R	S21	1	("20020181492").PN.
BRS	S22	1	null$widening
BRS	S23	18	S6 and (null near2 (increas$3 wid$5 expand$3 chang$3 adjust$3))
BRS	S24	2378	(smart adaptive) adj2 antenna$1
BRS	S25	57	S24 same (side$lobe$1)
BRS	S26	5	S25 and (butler) and null
BRS	S27	997	(smart) adj2 antenna$1
BRS	S28	997	smart adj2 antenna$1
BRS	S29	138	(smart adj2 antenna$1) near2 adaptive
IS&R	S30	3	(("6393303") or ("6735445") or ("20020181492")).PN.
IS&R	S31	1	("6735445").PN.
BRS	S32	0	S31 and ((smart adj2 antenna$1) and (side$lobe$1)) and Butler
BRS	S33	1	S31 and (smart adj2 antenna$1)
IS&R	S34	1	("6393303").PN.
BRS	S35	0	S34 and (smart adj2 antenna$1)
BRS	S36	0	S34 and (adaptive adj2 antenna$1)
IS&R	S37	1	("20040235529").PN.
BRS	S38	1	S31 and (smart adj2 antenna$1) and power
BRS	S39	1	S34 and power
BRS	S40	0	S34 and power and side$lobe
BRS	S41	0	S34 and power and side$lobes
BRS	S42	16	"smart antenna" near2 sdma
BRS	S43	1	S34 and "base station"
BRS	S44	1	S34 and butler
BRS	S45	1	S34 and butler
BRS	S46	0	S31 and butler
BRS	S47	116	(transmit send$3) near4 side$lobe$1
BRS	S48	0	S47 same ((increas$3 modif$4 chang$3 adjust$3) near4 weight)
BRS	S49	0	S47 same ("weight matrix")
BRS	S50	1	S47 and ("weight matrix")
BRS	S51	4227	("weight matrix")
BRS	S52	0	("weight matrix") same side$lobe
BRS	S53	0	"weight matrix" same side$lobe

BRS	S54	16	"weight matrix" and side$lobe
IS&R	S55	1	("6393303").PN.
BRS	S56	0	S55 and "weight"
BRS	S57	173	"weight matrix" near2 "W="
IS&R	S58	1	("20040235529").PN.
BRS	S59	1	"20040235529".pn. and "weight matrix"
BRS	S60	1	"20040235529".pn. and "Downlink Beamforming Matrix"
BRS	S61	16	"Steering Matrix" near2 "A="
BRS	S62	2	"Weight Matrix" near4 (expand$3 modif$4 increas$3) near4 size
BRS	S63	2	"Weight Matrix" near6 (expand$3 modif$4 increas$3) near6 size
BRS	S64	2	"Weight Matrix" near6 (expand$3 modif$4 increas$3 adjust$3) near6 size
BRS	S65	23	"Weight Matrix" with (expand$3 modif$4 increas$3 adjust$3) with size
BRS	S66	300	"Weight Matrix" with (expand$3 modif$4 increas$3 adjust$3)
BRS	S67	23	"Weight Matrix" with (expand$3 modif$4 increas$3 adjust$3 bigger) with size
BRS	S68	28080	"Weight" with (expand$3 modif$4 increas$3 adjust$3 bigger) with size
BRS	S69	35	(Weight adj2 Matrix) with (expand$3 modif$4 increas$3 adjust$3 bigger) with size
BRS	S70	0	"Butler matrix" near4 weight same side$lobe
BRS	S71	4	dummy near4 side$lobe$1
BRS	S72	23	"Weight Matrix" with (chang$3 expand$3 modif$4 increas$3 adjust$3 bigger) with size
BRS	S73	27	"Weight Matrix" near2 is
BRS	S74	1764	455/63.4,575.7,562.1,25.ccls.
BRS	S75	38	S74 and (weight with (chang$3 expand$3 modif$4 increas$3 adjust$3 bigger) with size)
BRS	S76	12	S74 and (weight with (chang$3 expand$3 modif$4 increas$3 adjust$3 bigger) with size same matrix)
BRS	S77	39	(increas$3 elevat$3) with (power strength) with (side$lobe)
BRS	S78	314	side$lobe$1 same weight
BRS	S79	1	side$lobe$1 same weight same matrix same (adjust$3 modif$4 expand$4 increas$3) same size
IS&R	S80	1	("20040235529").PN.
BRS	S81	1	S80 and "Weight Matrix"
BRS	S82	0	455/562.ccls.
BRS	S83	601	(increas$3 rais$3 elevat$3) near4 side$lobe$1
BRS	S84	22	(increas$3 rais$3 elevat$3) near4 side$lobe$1 near4 power
BRS	S85	7	(generat$3 creat$3 induc$3) near4 side$lobe$1 near4 power
BRS	S86	0	"6542519".pn. and "null widening"
BRS	S87	0	"6542519".pn. and "null"
BRS	S88	1	"6839573".pn. and "null"
BRS	S89	7	"zero forcing" same beamforming
BRS	S90	1	maximum near2 SINR near2 beamformer
BRS	S91	1	(maximum near2 SINR) with beamformer
BRS	S92	1	(maximum near2 SINR) same beamformer